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71 Applicant: **National Aerospace Laboratories
of Science & Technology Agency
44-1, Jindaijihigashimachi 7-chome
Chofu-shi Tokyo-to(JP)**

Applicant: **AGENCY OF INDUSTRIAL SCIENCE
AND TECHNOLOGY
3-1, 1-chome, Kasumigaseki
Chiyoda-ku Tokyo(JP)**

Applicant: **DAIKIN INDUSTRIES LIMITED
Umeda Center Building 4-12, Nakazaki-nishi
2-chome Kita-ku
Osaka-shi Osaka-fu(JP)**

72 Inventor: **Niino, Masayuki
1-3-7, Minamikoizumi
Sendai-shi Miyagi-ken(JP)**
Inventor: **Yatsuyanagi, Nobuyuki
2-18-19, Funaokanishi Shibata-cho
Shibata-gun Miyagi-ken(JP)**
Inventor: **Ikeuchi, Jun
3-26-11, Dainohara
Sendai-shi Miyagi-ken(JP)**
Inventor: **Sata, Nobuhiro
1-6-25-904, Honcho
Sendai-shi Miyagi-ken(JP)**
Inventor: **Hirano, Tohru
Evergreen-Kanaoka 4-902 704-2,
Kanaoka-cho
Sakai-shi Osaka-fu(JP)**
Inventor: **Sumiyoshi, Kanichiro
2-3-17, Horiagemidorimachi
Sakai-shi Osaka-fu(JP)**

74 Representative: **Hansen, Bernd, Dr.rer.nat. et
al
Hoffmann, Eitle & Partner Patentanwälte
Arabellastrasse 4 Postfach 81 04 20
D-8000 München 81(DE)**

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54 Method of producing a multilayer material having a gradually changing composition.

⑤7 A method of producing a material having a layer of ceramic as a first component, a layer of a metal as a second component and an intermediate layer lying between said layers and including said first and second components in continuously gradient ratios so that the properties of the material may change continuously; including a step to form said intermediate layer by igniting the mixture of powders of metallic and nonmetallic constitutive elements of said ceramic and powder of said metal and causing synthetic reaction of the powder mixture.



EP 87 11 1403

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US-A-3 802 850 (CLOUGHERTY) * Abstract * ---	1,5	C 04 B 35/65 B 32 B 18/00
A	US-A-4 107 392 (AOKI et al.) * Abstract * ---	1,5	C 22 C 1/05 B 22 F 7/02
A	US-A-3 804 034 (STIGLICH, Jr.) * Abstract * ---	1,5	
A	US-A-4 101 712 (BOMFORD et al.) ---		
A	US-A-4 587 177 (TOAZ et al.) ---		
A	WO-A-8 501 044 (ELTECH SYSTEMS CORP.) * Abstract * ---	1,5	
A	JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol. 69, no. 4, April 1986, pages C80-C81, Columbus, Ohio, US; O. ODAWARA et al.: "Ceramic composite pipes produced by a centrifugal-exothermic process" * Page C80: "Results and discussion" * ---	1,15	
A	EP-A-0 165 707 (SUMITOMO ELECTRIC INDUSTRIES) * Page 32; example 1 * ---	1,5	
A	EP-A-0 164 830 (CORNING GLASS WORKS) ---		
A	EP-A-0 117 366 (ALCAN INTERNATIONAL) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-03-1989	Examiner ASHLEY G.W.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			